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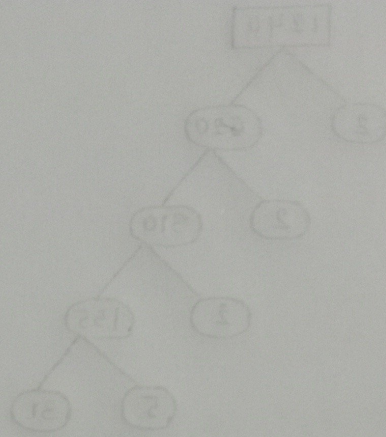
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1. The prime factorization of 1240, using three different methods.

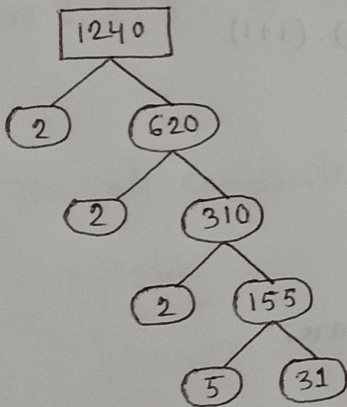
Division method:

$$\begin{array}{r} 2 \overline{)1240} \\ 2 \overline{)620} \\ 2 \overline{)310} \\ 5 \overline{)155} \\ \quad 31 \end{array}$$

$$\therefore 2^3 \cdot 5 \cdot 31$$



Tree diagram:



$$\therefore 2^3 \cdot 5 \cdot 31$$

Multiple method:

$$\begin{aligned} 1240 &= 2 \times 620 = 2 \times 2 \times 310 \\ &= 2^2 \times 2 \times 155 \\ &= 2^3 \times 5 \times 31 \end{aligned}$$

Therefore, the prime factorization of 1240 is,  $2^3 \cdot 5 \cdot 31$

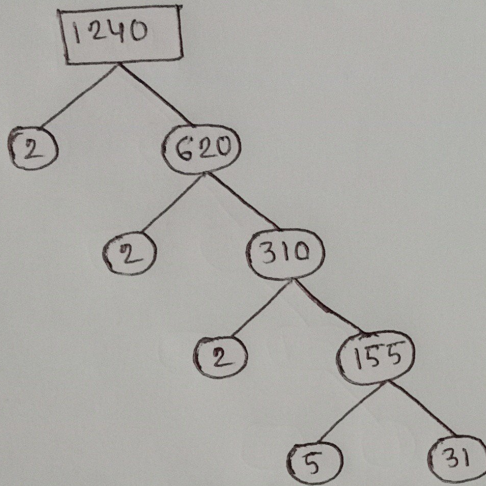
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2. The all factor of 1240 using tree diagram,



The prime factorization of 1240 is  $= 2^3 \cdot 5 \cdot 31$

The number of factor  $= (3+1) \cdot (1+1) \cdot (1+1)$

$$= 4 \cdot 2 \cdot 2$$

$$= 16 \text{ Ans.}$$

3. The prime factor of 1240 is,

$$\begin{array}{r} 2 \overline{)1240} \\ \underline{2 \quad 620} \\ 2 \overline{)310} \\ \underline{2 \quad 155} \\ 5 \overline{)155} \\ \underline{5 \quad 31} \end{array}$$

Therefore, the prime factors of 1240 are 2, 5, 31 Ans.

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4. The prime factorization of 1240 is.

$$\begin{array}{r} 2 \overline{)1240} \\ 2 \overline{)620} \\ 2 \overline{)310} \\ 5 \overline{)155} \\ 31 \end{array}$$

$$\therefore 2^3 \cdot 5 \cdot 31$$

Calculation for all the factors of 1240,

$$1 \times 1240$$

$$2 \times 620$$

$$4 \times 310$$

$$5 \times 248$$

$$8 \times 155$$

$$10 \times 124$$

$$20 \times 62$$

$$31 \times 40$$

$$\therefore 1, 2, 4, 5, 8, 10, 20, 31, 40, 62, 124, 155, 248, 310, 620, 1240$$

But 2, 5, 31 these numbers are  $\neq$  the prime numbers.

Therefore, the composite factors are = 4, 8, 10, 20, 40, 62, 124, 155, 248, 310, 620, 1240.

Ans.